



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/829,549
Source: OIPE
Date Processed by STIC: 4-23-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIPE

RAW SEQUENCE LISTING DATE: 04/23/2001
 PATENT APPLICATION: US/09/829,549 TIME: 13:28:50

Input Set : A:\Umol52-1.txt
 Output Set: N:\CRF3\04232001\I829549.raw

3 <110> APPLICANT: The Curators of the University of Missouri
 5 <120> TITLE OF INVENTION: PHAGE DISPLAY SELECTION OF ANTI FUNGAL PEPTIDES
 7 <130> FILE REFERENCE: UMO 1521.1
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/829,549
 C--> 9 <141> CURRENT FILING DATE: 2001-04-10
 9 <150> PRIOR APPLICATION NUMBER: US 60/195,785
 10 <151> PRIOR FILING DATE: 2000-04-10
 12 <160> NUMBER OF SEQ ID NOS: 48
 14 <170> SOFTWARE: PatentIn version 3.0
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 33
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Type 88 filamentous bacteriophage
 21 <220> FEATURE:
 22 <221> NAME/KEY: VARIANT
 23 <222> LOCATION: (9)..(23)
 24 <223> OTHER INFORMATION: x=any amino acid encoded by the codon NNK
 27 <400> SEQUENCE: 1
 W--> 29 Leu Val Pro Met Leu Ser Phe Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 30 1 5 10 15
 W--> 32 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Ala Glu Gly Asp Asp Pro Ala Lys
 33 20 25 30
 35 Ala
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 20
 40 <212> TYPE: DNA
 C--> 41 <213> ORGANISM: Artificial
 43 <220> FEATURE:
 44 <221> NAME/KEY: misc_feature
 45 <222> LOCATION: (1)..(20)
 46 <223> OTHER INFORMATION: Primer
 49 <400> SEQUENCE: 2
 50 ggagccttta attgtatcgg
 53 <210> SEQ ID NO: 3
 54 <211> LENGTH: 19
 55 <212> TYPE: DNA
 C--> 56 <213> ORGANISM: Artificial
 58 <220> FEATURE:
 59 <221> NAME/KEY: misc_feature
 60 <222> LOCATION: (1)..(19)
 61 <223> OTHER INFORMATION: Primer
 64 <400> SEQUENCE: 3
 65 agtagcagaa gcctgaaga
 68 <210> SEQ ID NO: 4
 69 <211> LENGTH: 9
 70 <212> TYPE: PRT
 C--> 71 <213> ORGANISM: Artificial

Does Not Comply
 Corrected Diskette Needed
 See pp 1-5

20
 Incomplete response for <213>
 as per section 1.823b of the
 new sequence rules. See # 11 on
 the Error Summary Sheet.
 19

Note: This error is indicated
 throughout the sequence listing.
 Please review and correct.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/829,549

DATE: 04/23/2001
TIME: 13:28:50

Input Set : A:\Umol52-1.txt
Output Set: N:\CRF3\04232001\I829549.raw

73 <220> FEATURE:
74 <221> NAME/KEY: DOMAIN
75 <222> LOCATION: (1)..(9)
76 <223> OTHER INFORMATION: Random peptide insert
79 <400> SEQUENCE: 4
81 Ala Ala Pro Asp Leu Gln Asp Ala Met
82 1 5
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 9
86 <212> TYPE: PRT
C--> 87 <213> ORGANISM: Artificial
89 <220> FEATURE:
90 <221> NAME/KEY: DOMAIN
91 <222> LOCATION: (1)..(9)
92 <223> OTHER INFORMATION: Random peptide insert
95 <400> SEQUENCE: 5
97 Ala Asp Arg Leu Asn Ser Asp Ala Gly
98 1 5
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 9
102 <212> TYPE: PRT
C--> 103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <221> NAME/KEY: DOMAIN
107 <222> LOCATION: (1)..(9)
108 <223> OTHER INFORMATION: Random peptide insert
111 <400> SEQUENCE: 6
113 Ala Asp Arg Pro Ser Thr Thr Ser Leu
114 1 5
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 9
118 <212> TYPE: PRT
C--> 119 <213> ORGANISM: Artificial
121 <220> FEATURE:
122 <221> NAME/KEY: DOMAIN
123 <222> LOCATION: (1)..(9)
124 <223> OTHER INFORMATION: Random peptide insert
127 <400> SEQUENCE: 7
129 Ala Asp Pro Pro Arg Thr Val Ser Thr
130 1 5
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 9
134 <212> TYPE: PRT
C--> 135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <221> NAME/KEY: DOMAIN
139 <222> LOCATION: (1)..(9)
140 <223> OTHER INFORMATION: Random peptide insert
143 <400> SEQUENCE: 8

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/829,549

DATE: 04/23/2001
TIME: 13:28:50

Input Set : A:\Umol52-1.txt
Output Set: N:\CRF3\04232001\I829549.raw

145 Ala Asp Arg Pro Ser Met Ser Pro Thr
146 1 5
148 <210> SEQ ID NO: 9
149 <211> LENGTH: 9
150 <212> TYPE: PRT
C--> 151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <221> NAME/KEY: DOMAIN
155 <222> LOCATION: (1)..(9)
156 <223> OTHER INFORMATION: Random peptide insert
159 <400> SEQUENCE: 9
161 Ala Asp Arg Thr Ser Asn Ala Ser Thr
162 1 5
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 9
166 <212> TYPE: PRT
C--> 167 <213> ORGANISM: Artificial
169 <220> FEATURE:
170 <221> NAME/KEY: DOMAIN
171 <222> LOCATION: (1)..(9)
172 <223> OTHER INFORMATION: Random peptide insert
175 <400> SEQUENCE: 10
177 Ala Asp Lys Ser Tyr Ile Pro Ser Ser
178 1 5
180 <210> SEQ ID NO: 11
181 <211> LENGTH: 9
182 <212> TYPE: PRT
C--> 183 <213> ORGANISM: Artificial
185 <220> FEATURE:
186 <221> NAME/KEY: DOMAIN
187 <222> LOCATION: (1)..(9)
188 <223> OTHER INFORMATION: Random peptide insert
191 <400> SEQUENCE: 11
193 Ala Val Arg Asn Pro Ser His His Ser
194 1 5
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 9
198 <212> TYPE: PRT
C--> 199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <221> NAME/KEY: DOMAIN
203 <222> LOCATION: (1)..(9)
204 <223> OTHER INFORMATION: Random peptide insert
207 <400> SEQUENCE: 12
209 Ala Asp Pro Thr Pro Arg Gly His Ser
210 1 5
212 <210> SEQ ID NO: 13
213 <211> LENGTH: 9
214 <212> TYPE: PRT

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/829,549

DATE: 04/23/2001
TIME: 13:28:50

Input Set : A:\Umo152-1.txt
Output Set: N:\CRF3\04232001\I829549.raw

C--> 215 <213> ORGANISM: Artificial
217 <220> FEATURE:
218 <221> NAME/KEY: DOMAIN
219 <222> LOCATION: (1)..(9)
220 <223> OTHER INFORMATION: Random peptide insert
223 <400> SEQUENCE: 13
225 Ala Asp Pro Thr Arg Gln Pro His Ser
226 1 5
228 <210> SEQ ID NO: 14
229 <211> LENGTH: 9
230 <212> TYPE: PRT
C--> 231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <221> NAME/KEY: DOMAIN
235 <222> LOCATION: (1)..(9)
236 <223> OTHER INFORMATION: Random peptide insert
239 <400> SEQUENCE: 14
241 Ala Glu His Gln Asn Ser Ala Gly Pro
242 1 5
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 10
246 <212> TYPE: PRT
C--> 247 <213> ORGANISM: Artificial
249 <220> FEATURE:
250 <221> NAME/KEY: DOMAIN
251 <222> LOCATION: (1)..(10)
252 <223> OTHER INFORMATION: Random peptide insert
255 <400> SEQUENCE: 15
257 Ala Asp Ala Arg Ser Ala Gly Ala Ile Ser
258 1 5 10
260 <210> SEQ ID NO: 16
261 <211> LENGTH: 9
262 <212> TYPE: PRT
C--> 263 <213> ORGANISM: Artificial
265 <220> FEATURE:
266 <221> NAME/KEY: DOMAIN
267 <222> LOCATION: (1)..(9)
268 <223> OTHER INFORMATION: Random peptide insert
271 <400> SEQUENCE: 16
273 Ala Asp Ser Lys Asn Ala Gly Pro Met
274 1 5
276 <210> SEQ ID NO: 17
277 <211> LENGTH: 9
278 <212> TYPE: PRT
C--> 279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <221> NAME/KEY: DOMAIN
283 <222> LOCATION: (1)..(9)
284 <223> OTHER INFORMATION: Random peptide insert

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/829,549

DATE: 04/23/2001
TIME: 13:28:50

Input Set : A:\Umo152-1.txt
Output Set: N:\CRF3\04232001\I829549.raw

287 <400> SEQUENCE: 17
289 Ala Glu Thr Lys Phe Ser Gly Ser Ala
290 1 5
292 <210> SEQ ID NO: 18
293 <211> LENGTH: 9
294 <212> TYPE: PRT
C--> 295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <221> NAME/KEY: DOMAIN
299 <222> LOCATION: (1)..(9)
300 <223> OTHER INFORMATION: Random peptide insert
303 <400> SEQUENCE: 18
305 Ala Asp Pro Lys Gly Ser Gly Val Thr
306 1 5
308 <210> SEQ ID NO: 19
309 <211> LENGTH: 9
310 <212> TYPE: PRT
C--> 311 <213> ORGANISM: Artificial
313 <220> FEATURE:
314 <221> NAME/KEY: DOMAIN
315 <222> LOCATION: (1)..(9)
316 <223> OTHER INFORMATION: Random peptide insert
319 <400> SEQUENCE: 19
321 Ala Gly Leu Thr Ser Pro Asn Asp Met
322 1 5
324 <210> SEQ ID NO: 20
325 <211> LENGTH: 9
326 <212> TYPE: PRT
C--> 327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <221> NAME/KEY: DOMAIN
331 <222> LOCATION: (1)..(9)
332 <223> OTHER INFORMATION: Random peptide insert
335 <400> SEQUENCE: 20
337 Ala Asp Ile Thr Asp Pro Met Gly Ala
338 1 5
340 <210> SEQ ID NO: 21
341 <211> LENGTH: 9
342 <212> TYPE: PRT
C--> 343 <213> ORGANISM: Artificial
345 <220> FEATURE:
346 <221> NAME/KEY: DOMAIN
347 <222> LOCATION: (1)..(9)
348 <223> OTHER INFORMATION: Random peptide insert
351 <400> SEQUENCE: 21
353 Ala Val Gly Thr His Thr Pro Asp Ser
354 1 5
356 <210> SEQ ID NO: 22
357 <211> LENGTH: 9

Refer to
p. 1

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 04/23/2001

PATENT APPLICATION: US/09/829,549

TIME: 13:28:51

Input Set : A:\Umol52-1.txt

Output Set: N:\CRF3\04232001\I829549.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:41 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:56 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:71 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:87 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:103 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:119 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:135 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:151 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:167 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:199 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:215 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:231 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:247 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:263 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:279 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:295 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:311 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:327 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:343 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:359 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:375 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:391 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:407 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:423 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
L:439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:445 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:461 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:483 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29
L:499 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30
L:515 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31
L:531 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:553 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33
L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:575 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:597 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35
L:613 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:635 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37
L:657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:663 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38

VERIFICATION SUMMARY DATE: 04/23/2001
PATENT APPLICATION: US/09/829,549 TIME: 13:28:51

Input Set : A:\Umo152-1.txt
Output Set: N:\CRF3\04232001\I829549.raw

L:679 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39
L:695 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40
L:711 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:41
L:727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:733 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42
L:749 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:43
L:765 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:781 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:45
L:797 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:46
L:812 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47
L:827 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48